Abstract of the Disclosure

The present invention is directed towards finding the best fares available in a computationally non-prohibitive manner in response to a fare request. A solution tree is utilized. The solution tree represents a progression of partial fare solutions, beginning with the fare request at the root node of the tree, to complete fare solutions at the leaf nodes of the solution tree. At each level of the tree, additional trip information is added, such that the fare solutions of each level are more complete fare solutions than the previous level. As trip information is added, partial fare solutions that are determined to be non-optimal are removed from the tree. Thus, the complete fare solutions found in the leaf nodes represent optimal fare solutions. The complete fare solutions are returned in response to the fare request.